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RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/830,228

DATE: 02/15/2002
 TIME: 11:18:48

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Input Set : N:\Crf3\RULE60\09830228.raw
 Output Set: N:\CRF3\02152002\I830228.raw

SEQUENCE LISTING

- 3 (1) GENERAL INFORMATION:
- 7 (i) APPLICANT: Gil Choi et. al.
- 10 (ii) TITLE OF INVENTION: Borrelia burgdorferi Polynucleotides and Sequences
- 13 (iii) NUMBER OF SEQUENCES: 155
- 16 (iv) CORRESPONDENCE ADDRESS:
- 18 (A) ADDRESSEE: Human Genome Sciences, Inc.
- 20 (B) STREET: 9410 Key West Avenue
- 22 (C) CITY: Rockville
- 24 (D) STATE: Maryland
- 26 (E) COUNTRY: USA
- 28 (F) ZIP: 20850
- 31 (v) COMPUTER READABLE FORM:
- 33 (A) MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
- 35 (B) COMPUTER: HP Vectra 486/33
- 37 (C) OPERATING SYSTEM: MSDOS version 6.2
- 39 (D) SOFTWARE: ASCII Text
- 42 (vi) CURRENT APPLICATION DATA:
- C--> 44 (A) APPLICATION NUMBER: US/09/830,228
- C--> 46 (B) FILING DATE: 24-Apr-2001
- 48 (C) CLASSIFICATION:
- 51 (vii) PRIOR APPLICATION DATA:
- 53 (A) APPLICATION NUMBER: PCT/US98/12764
- 55 (B) FILING DATE:
- 59 (viii) ATTORNEY/AGENT INFORMATION:
- 61 (A) NAME: Brookes, A. Anders
- 63 (B) REGISTRATION NUMBER: 36,373
- 65 (C) REFERENCE/DOCKET NUMBER: PB370PCT
- C--> 69 (ix) TELECOMMUNICATION INFORMATION:
- 71 (A) TELEPHONE: (301) 309-8504
- 73 (B) TELEFAX: (301) 309-8512
- 77 (2) INFORMATION FOR SEQ ID NO: 1:
- 79 (i) SEQUENCE CHARACTERISTICS:
- 80 (A) LENGTH: 910715 base pairs
- 81 (B) TYPE: nucleic acid
- 82 (C) STRANDEDNESS: double
- 83 (D) TOPOLOGY: linear
- 87 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
- | | |
|---|-----|
| 89 ATATAATTTT TAATTAGTAT AGAATATGTT AAACTTTACC CTTGAATTTC TCTACTCTAT | 60 |
| 91 TTGTATATTC TATAGAAAAAA ACGATTAGAA TTAAACAAAG CCATAACTGA ACCAACGGTA | 120 |
| 93 ATTAGTAGAT AAAGGGATCA AAATATTTTT TATTGCAGCA AGAATACCTT GGTATATTAG | 180 |
| 95 AAAAACCAAAG AGTCATAGTC AAATCATCTT TTGATAACAA TCCCCAAATC TATAATTTAT | 240 |
| 97 TATGAAATTA ATTGCTCCCT TGAAAAGATT AGTTTTAAA ACTACAAGAC TACTATCAAT | 300 |

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99	CACTATCAGA TAGATTAAAA CAACCTTAC AAGAAAAAAA TCTTACTACT ATTTTATTGT	360
101	AAATGTATTA TAAAATAAGT TCATGAAAA ACTTACAATT TTTCACAACA AACTACAATA	420
103	AAATCATGTA AACAAACAAT TTCTTGAAA ATTAAGCAA TTTATAATAA TAAATTATAA	480
105	AGATATATAT TTTTATATGA TCAATAATAA AAATTAATAG GATACTTATT TGAAAATT	540
107	ATTGAAAAAA CAATAAGCAT GAATTGCCAC AATAAGCTAA TTGTCACTTA ATAATTCTG	600
109	TTTACTAGAC CACATTAGTA TAAACTCAA TATTGGCTAC TATAATATAG GGGCTTATA	660
111	CGCCACATGT TTAATGATAA CATAAGAAA TATTGCAATA ATAAAAAGAT TGAAATATCT	720
113	TTATTAGAAA AGAATCTCGA TAATTTAGAA AACAGAATAA AAATCATAAC TAATAAATAT	780
115	AACGTTGAAA AAAATATATT CAAACTTAA CTATACAATT AATTACACCT TAAAATGCG	840
117	TTACATAAAA ATTAAGGACT ACTATAATAA GAAAACACCA CATAACCTAC AGACTCTAAA	900
119	GGAATAATT AATCCTCATA TTTCAGTTCT CCAAAAGTT AAATAGGGC CTTTACTTT	960
121	TCTTGATTAG CATATACATT ATTAAAGGCA TCTTCTTGGG CACTATCCTA AACTTTTTA	1020
123	CATTATTATT ATTTTATTCT TTATTATTAC AAGATAATT AAGAATCTAG ATTACAAGAT	1080
125	ATCAATCCTG CCATTAGTAG TTCAATAAAA CATTAGAAT ATTTATACAT TATTAATGT	1140
127	ATTTTTTCAT TTTTGAAAT AATATTGTTA TAACTTAAC TAAATAAGATA TTTGATTCT	1200
129	TCAACTTGAG AATCCGATGT ACATAGAAC TGAACATCTC CTCTGCCCA TTTGCAATA	1260
131	TTCTTAATAT ATCTAGAAA ACCCTTTTT AAAATTATT GATCTAGAGC AACAGTAATA	1320
133	GTAATATTAA TTTTATTTAC CCCAGGTCTA AAGCTAAAT CTACAAAATA TCCGCCCTGT	1380
135	ACTTTAAATC CTGTATAGCA CTGTTTCA ACTTTCTCAA TTTCATTAAA ATTAAAACA	1440
137	AAAATAAAAT CTTCTAATTTC TTATATATT GCTTTCATAT CGGAATTAA TTTTCAAAT	1500
139	TTTTTAAAT TTTGGTTTT AATATTATTA TCTTTTATAC CAGAATCTGT GTCTTCT	1560
141	ATGTCACTTT TCTTGCTGTT TACTAATACA TCGTTTTTT TTTCATCAA AAACATACTA	1620
143	AAAATTTTT TAATAATATC ATTAATATT TTATCTGAAT ATGTTTTTT AAAACCAATT	1680
145	TTAGCTTTAA AAAATCAAG CAAATCAACA CTTGGATTT TTGTTCCCT TTTAAATAA	1740
147	GCTGAAAATT TGTCTGTATA TTTTTTTCT AATGCAAAG ATCTAGCCTC TTCAACATTC	1800
149	AAAGAATTTC TAGAAAACCTT TTTAAGATAT TCAAAACCT TAGATGTTAA TTTTCTAAA	1860
151	TTAACACCA TAAAAGGCTC ATTGTCTAAC AAATTATCTT TATCTAGGTC AGTATAGAAT	1920
153	CTATATTCTA TGCCATCTGT TAATATACCA AATTCAACTC TCTTGCCTG AGAACGAATA	1980
155	TTTCAAAAT AAGGTTTAA TTGCTTTAGA TGATTTCAA GCTTTCCCT GCTATTATGA	2040
157	TATTTGGCCT CTATTAATATC AGTGGGTTCT TCATCCTTT TTGTTGGATA AATAACATAA	2100
159	TCAACCCTT TTAGCCATC TTTAAGAATA TCTGCCTCT CTTCAACTTT ACAATTGAA	2160
161	ATATCAGTAT GATCATAGCC CATCGCATCT AAAATGGAT CAATAAGATT TTGCTTGT	2220
163	TGTGCTTCAT TTTCAATAAG ATCCTTATCC TTTGAATT TTCTACTTAC AGCTTTTATT	2280
165	GAATTTCAA AATTATATC TTTGTATTCA TTGGCATAA TTATTTTTA CCAATAAAAT	2340
167	AAAAAATTAA TAATTCTAAA AATAAATTTC CAAAATGTT TCTATTTAA ACTCTTAAC	2400
169	GATACCTTAA TTCTTTTTC TACCTAATT TTTAGTTAA AATCTTATT TTAATTTTA	2460
171	TTATTTTTC CTTACCTTAT TTACTAATAA ATTTTAGTA TTAGCGAAT AATTTCTATA	2520
173	TCCTTTTATT AAAGACAAA TATGATTTC TCTTTTTGT TTTTAATAC CTTAAAATCA	2580
175	CTAAGCAAAG TAATAAAGTC TTCTTGTT AATGAATAAA AGACTAGCTA TAATAAAATT	2640
177	ATTTTATTTC TCTTACTAA ATTCAAAATG CTCTAAATAA AGCAAATTAG AGAAATTCAA	2700
179	AGGATCATTT TTAGCTATTA GCAGAGAAGT GTTTTTACC AAAGTTAGAC ATAATGAAC	2760
181	AGCCAAAATT TCTCTTGG GTTGAGGCAT TGGACATTGA CAAAGAAATG ATTTACAAT	2820
183	GTCGGTATT TAAAACAAAT CTTCTAATCA TAAAATCAA TACAGTCAT TGAAAATAGA	2880
185	TATAATAAAC AATTTTTAT AAAAAGATAT TGGTATTTTC TCACAATTCA TATCTATT	2940
187	ATAGAAACAC ATAATAATT TTTAGGAGAT AAAGTGCTAA TCATGGTCT TTCATTTGTA	3000
189	TTGCTTGCAA TTCTCTATA AAATATTCTT TCATTTGGGT ACTGATCATC TTTAGTTAAG	3060
191	ATTTTTCTA AATCTTCTT ATATCCTATC CATAAAAGCT TATAACCTTC TTTTACATAA	3120
193	TCATAAGTAA AAAATCTAA ATTAAATTGA TAGATATTAG CCCCAGAATA AAGAAATATA	3180
195	AAGTTTTCAT TATTATATTTC CTTTAATAAA GATTGCGAT TCTTATAC TGGATCTGGC	3240

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197	CCTTTTTAA	AATTAATATC	TTCTTTACTA	AGAATACTAA	ATGAACTAAA	TATTTGTTT	3300
199	AATTGGCCC	ATGTTAATT	CAATTCCCTT	ATAAGGATT	TCTTTGCAGT	CTTTTAAGTC	3360
201	TCTAGTTATT	CCTTAATAAT	ATTATCACTA	CTTGAAATAA	CAAATTTGC	TTTAAATTT	3420
203	AATGTAAAAG	TTTATTACTA	CGAGGAAATA	TCGCAAATT	AAAACCTGAA	TGCATATCTT	3480
205	AAAACCTTT	TTTGTTC	AACTGATAAA	TAAGTTAAGT	TTATAATTAC	TAATATATG	3540
207	CTTCTTAGC	AAGCTAACAC	CAAATATCAC	AATAGAAGTA	ATTCTCAATA	AACAAAATAC	3600
209	AAAAAGTAGT	TATCATATCG	TCTTTAACCT	TAAATAAGGT	TGCTATAAAC	AACCAAGATA	3660
211	TTAATTTCT	TTTAAAACCC	TTATTCAATC	TTTTAAGCA	TAGGATCTT	TAATTATAAG	3720
213	AATATAATT	TATTACATC	TCTATATTAA	TAGAAAGATG	CAAATATGTG	ATCAAATTGT	3780
215	TATTTTGT	ATATGGAATA	GTCCTTATA	GGGACGCTTA	ATGCTCTATA	CTTAAGATTG	3840
217	GAATTCTCTA	TGAAAATATA	TACTCGCTAC	CCATGTAAAG	CTGACTTATT	TTAGCACGTA	3900
219	TCGCTTAAAC	AATTATATT	ATATTATCTT	TTATAAAAGTT	AATTTTCT	TGTAGATTAT	3960
221	TTTTTAATAA	AAAAGGCACA	AATTACCACA	ACAAGTTCCA	GTATAAAATTA	ATAGTTCTTA	4020
223	TCTCAACACT	AAGTACATA	AACATCAAAT	ATCAAAAATA	TATAAGAAC	ACATACTACA	4080
225	TTGTTTAAT	GGAAACCTTA	AAAGGAATGG	TTAAACTCTC	ATTAAGCTAA	AACCAATGCA	4140
227	AAAATATCTT	TATAAATTAG	CAAAGAACT	AAAAGTCACA	AACAACTACC	ATAAAAATT	4200
229	GGTAGTAAAT	TCTGGAAC	AAATTACTA	AAAACCTCAAT	TATTCTAAA	AAAATATTG	4260
231	CTTAAATTAA	AGAATGCC	AAAAAAACAA	AATGCTCTGA	TTTAAACCTA	TACCCAAAAT	4320
233	ACAAATTAC	TAAAGAAGAA	GATATAGATT	TAGAGAAGAT	CTTAATAATA	AAAATATTAA	4380
235	TATAAAAGTT	GCTCAGTATG	CTAAAGGCAA	AGAGTTAAG	TCAAGTTAG	AAATTACAAA	4440
237	GAGTAAAAC	ATAAACTTCC	TTAAGAATG	AAAATTATT	TTTATCTTA	CTTGGCTTAA	4500
239	TATTAAGATT	TTTTTATTCT	TTTCATAATA	ATCTCTCTA	TCACTTAACA	TTTGCTATA	4560
241	CAAAAATCTT	ACACATCTAA	ATACTTTTA	AAAAAATTG	ATTAGTGT	GAATATAATC	4620
243	TATATTATA	AACTTTATT	GCACTCATAA	TTTTACTAA	TTAATATATT	ATATTAAATT	4680
245	TATTTTAA	ATTATCTCC	ATTACAAA	AAAACCTAAA	TTAAACTCTC	CAAACCTATA	4740
247	ATAAAAAAAA	TAAGGCAAAA	CCCCAACAAA	CTCAAGATCT	ATAATACAA	AATACAATAT	4800
249	AAGAATCCC	AGCTAAAAAA	CAACCCCC	AAATCTTTT	TTATTGGCGT	TTTAAATAA	4860
251	TGGTAATAAA	GAATTCCAAT	CAACACGATC	CCCCCTACAA	CTTTCAAAAC	CCTATAGCTT	4920
253	GGCTTTTAT	ATTATTTTA	AATTACATG	TCACAACAT	AGATAATGCA	AAAAATAAGT	4980
255	ATTAATAAAA	CAAATACATT	TATAGAACCT	ATACAATTAT	TGAGCATATG	GCTAGTACTA	5040
257	AAAATGAAA	TGTACAAGAT	AATATGCTAT	TAATAAAAT	TAATGGCTAC	AAAAACTTTT	5100
259	GAATCCACAT	TTTTCTTA	AAAAAATTCT	AAATTATTAA	AATAAATAGA	AATTAAAATT	5160
261	ACCAAAAATA	TTATTATAGT	AATAAATATG	TAAAGCTATT	TTTATTAAA	CTGATAATAA	5220
263	AAATATAATA	GCTAAAATAA	CATAAATTAA	CTTAAATTAA	TATCAAAC	TTAGATTAA	5280
265	AATATTTAAT	AAAAGGCAA	GCTATAAAC	CCATATACTT	ATTTTATTAT	TTTTTCATT	5340
267	TTATTTAAAT	TAATTAAAT	AAGACTCAAT	CAAATAATCA	ATCAAACATA	TTGGGTGAAG	5400
269	AAAAAATAGG	GTATTCTGG	TGAATCGTT	AAAAAGGGGG	TATAGTAAGC	AAAAAAACTC	5460
271	TTATTAAGA	GGATGTTTAT	AGACTTAAA	GTCTAATTCA	ATATGAAAGA	GGCTTTTAA	5520
273	AGCTAAAAT	GTTAAAGAAA	ATCAAATTAA	GCAACAAAGAT	GGTTTGTTT	CTATAAATAG	5580
275	TTTTAAAGAA	TATATACATT	TGCACATACC	CTTCATTATA	ACATCTACTA	ATTACACAAT	5640
277	AAAAAATAAA	ATGATTATT	AAGAATTATT	AGTAACCTAT	AAAAACTTTA	TAAGTTACAT	5700
279	AGTCAAAAT	ATAAAAATT	AAAACAAAAA	ATTAACGATA	TGGAAAATT	GTATTTATA	5760
281	GAAATAGAAA	TATATTGCA	TTAAACAACT	ATGAATTAT	AAAGATTCTA	GTAGGAGAGA	5820
283	AAATATGAAA	AAAAAAATT	TATCAATT	CATGATAATG	CTAATAAGTT	TATTATCATG	5880
285	TAATACAAGT	GACCCCAATG	AATTAAC	TTAAAAATG	CAAGACAAGA	ACGTAAAAT	5940
287	TTAGGATT	TTAGAGAAA	TTCAAGCAGA	TAATAAGAA	ATTGTTGAAA	AACATATAGA	6000
289	AAAAAAAGAA	AAACAAATGG	TGCAGGCTGC	TTCTGTAGCA	CCTATTAATG	TAGAGAGTAA	6060
291	TTTCCCATAT	TATCTCAAG	AAGAAATAGA	GATAAAAGAA	GAAGAGTTGG	TTCAAATAC	6120
293	TGATGAAGAA	AAGAAGGCAG	AGAAGGCAAT	TAGCGATGGG	AGTCTTGAAT	TTGCTAAATT	6180

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295	AGTTGATGAT	GAAAATAAAC	TTAAAAATGA	ATCTGCGCAA	TTAGAATCTA	GTTTTAATAA	6240
297	TGTTTATAAA	GAAATCTTAG	AACTTCGAGA	TTAATACAA	GCAGAGGGTC	ATGTTGCAGG	6300
299	AAGGATAAAT	AGCTATATAA	AAAAAAAGAAA	GACCACTAAA	GAAAAAGAAT	ATAAGAAGAG	6360
301	AGAAATTAAAG	AATAAGATAG	AAAAACAGGC	TCTAATTAAG	TTGTTCAATC	AGTTATTAGA	6420
303	AAAAAGAGGC	GATATTGAAA	ATCTTCATAC	TCAATTAAAT	AGTGGACTTA	GCGAGAGAGC	6480
305	ATCTGCAAAA	TACTTTTTG	AGAAAGCCAA	AGAAACTTTA	AAAGCTGCTA	TTACTGAAAG	6540
307	ATTAATAAAC	AAACGTAAAA	ATCGGCCATG	GTGGGCAAGA	AGAACACATA	GTAATTAGC	6600
309	AATACAGGCA	AAAAATGAGG	CAGAGGATGC	TTTAAACCAA	TTAAGTACTT	CTTCTTTAG	6660
311	GATACTTGAA	GCAATGAAAA	TAAAGGAAGA	TGTAAAACAG	CTTCTTGAAAG	AAGTAAATC	6720
313	TTTTCTAGAT	TCTTCAAAGA	GCAAAATCTT	TTCTAGTGGC	GATAGATTAT	ATGATTTTT	6780
315	AGAGACGAGT	AAATAAAAAA	ATATATTTA	AAGGCTAATA	ACTTAAAATC	AAAGTCTTCT	6840
317	GTAAAGGAA	GACTTTTTA	TAATTTATT	AAATAACGA	AAAGCTTGAT	AGTAAAAAAA	6900
319	TCTTTTTAT	AAAAATATG	TTTACTAAC	AGAGCTCAA	AATGACTATA	TTTAGTATCT	6960
321	CTATAAAAGA	ATTTTCAAT	ATTTAAAAAA	ATTTATAGAT	AAACATAATC	AAAACCATG	7020
323	CATTAATACA	AACCTAAAAC	ATACTTGGTC	ACTTGTAAAA	GTAAATTGTA	TCTAACTTTT	7080
325	TTTATTTATT	GAATATACGT	AAAAATTCTT	TATAATTCT	ATTTTAAAC	GCTGCTATT	7140
327	AGCAATACAA	AAAAGGCAT	TACAGATTGC	AATCAAACAA	ACTAAAGTTT	AAATAAAATA	7200
329	TTACCTCTG	TTCTAATCCT	ATCAAACAAG	GTAATAAATT	CTTTAAATT	CTAAAAGCCT	7260
331	AAACTTTAAA	AGAACCTGTC	GAAAATAATA	TTTCTCTTAA	AAAAGTTCT	AATCTTTTAT	7320
333	TTATAAGAAC	TTTTTACTA	TTATAAAAAT	GTATCTGCC	TTGATATATT	TGATTCTTT	7380
335	ATAAATCAAG	CCTTCTACTT	TTTTAAGAA	TATTCTATT	TTTTATAAAC	TAGTTTTCTA	7440
337	CAATAGAAAA	GAAATAACCC	AAAGCCCTAA	AAACTTAAAT	AAATGTTAGC	TATAATAACT	7500
339	AAAATAGAGA	AAAAAAACTC	AATCATAAAT	AATGGTAAAA	CAAACCTAAA	CCACGTACCA	7560
341	TAACTCAATC	TGGATATCCC	CAATACAGCC	ATTATAACTC	CGCTGGTAGG	TGTTATCAA	7620
343	TTAATAAGCC	CAGATGCAGT	CTGCATGGCA	ATAACAACTG	AAGCTCTGG	AATTGACAAA	7680
345	AAATCGGCAA	GAGGAGCCAT	TATTGGCATA	GTGAGACTAG	CATGTCTGA	TGAAGATGGA	7740
347	ACAACAAATC	CTATAAATAT	TTGAATAATT	TCATTCAATA	TGATAAAAAG	GGGTCTTGG	7800
349	AGATTGTATA	AAAAATTAGT	AGCAGCATT	AAACATAGTAT	CTGTAATCAA	CCCATCATCA	7860
351	CATACTATCA	TAACACCTCT	AGCAAGTCCA	ATAACAAAGAG	CAGCGGTTAG	CAGACTTCA	7920
353	GAACCTTCA	CAAACGCATC	CCACATTCA	GTTCACCTA	ATTTACAAAT	AAAAGCCGAT	7980
355	ATAATAGCAA	CTCCAAGATA	CAACATTGTC	ATTCTTGCA	TCCACCAACC	AAGATTAACA	8040
357	ATGCTAAATA	TCAAAATCAA	TATCATAAAT	CCAAATAAAA	GTAAAACAA	TTTATGAGCA	8100
359	AAAGTAAACT	CAAGAGCATT	CTGAGCATT	TCTCCGGTAG	AAAGTCCATC	TTTTTAACA	8160
361	AAATATTGAT	AATGTTCATC	TTTTGAGAA	TACACAAAGCG	ATTTTGAGGG	ATCCTTTTA	8220
363	ATTTTAGACG	CATAAACACA	AAACATAGGTT	ATAGCAGCCA	ATACTGATAC	AAAATAAAGA	8280
365	ACAATTCTAA	AATAAAATCC	ATCCTGCAAG	CTAATAGAAG	CTATTGCGAGA	TGCAATTCCCT	8340
367	GTCGCAAATG	GATTTACAGT	AGAAGCCATA	GTTCCCACTC	CAGCTCTAA	AGCAATAATA	8400
369	GGCGCTCCAA	CAAGACTATC	ATAACCCAAA	GCTACTATCA	AGGGAATCAT	AAACAAATAA	8460
371	AAAGGAAGGG	TCTCTTCACT	CATTCCGGTT	ACAGTTCCAC	CAATTGAAAAA	AATAAACATT	8520
373	AAACAAAGGAA	TAAGCAACTT	ATCTTGTGC	CCCAACTTCT	TGATTAACAA	ATAAATTCCC	8580
375	ACATCTATTG	CTCCAGTTT	CATAATAATC	CCATAAGCAC	CCCCAACAA	AAAAACAAAA	8640
377	ACAATAACTT	CAACTGCATG	TTCCATCCCC	TTGACATTG	CGGTTAAAT	AGTCATAATA	8700
379	GGATGTAAA	ATCCCCTAGA	GCCTCGATCT	ACATATTGAT	AAGTTCCAGC	AACAATTATT	8760
381	TCCCTTTAG	ATCCATCACC	CATTGCTTA	AATTCTTTAT	CAAACCTACC	GGCAGGAATC	8820
383	ACATACGTTA	AAATGGTAAC	AAATACAATT	AAAGAAAATA	TTATTGAAA	ACTACTTGGC	8880
385	ATTTGATCA	TAACGTTTCT	CCTAAATAAT	TTCATAAATT	TAATTCACA	AAAAAAATAC	8940
387	TGTTATCCCA	AAGTTGATAC	CATAATAGCT	TTAATGGTAT	GCACCCATT	TTCAGCCACA	9000
389	TCAAAACAA	CTGAATTAGT	ACTTTCAAAA	ATTCTTCTG	TAACCTCAAT	TCCATCAAGT	9060
391	CCGTATTTAT	AAAAATATC	CTTACCAATC	ACAGTGTAA	AGTCATGAAA	AGCAGGCAAG	9120

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393	CAATGCATAA	ATATTGCATC	ATCTTTGCC	ATGCACATTA	TCTCTTATT	AACCTGATAA	9180
395	GCCTTAGAA	GATTTATTCT	ATCTCCCAA	TTACTCTCCC	CCATAGATAC	CCACACGTCT	9240
397	GTATACACAA	CATCAGCACA	TTAACAGCC	TCTTCTTCT	AATCTGTAA	TGTAATTTA	9300
399	CCCCCACTCT	CTAGGGCTAA	AGACCTAGCC	TTAACCGTCA	AATCGGGTC	TGGAAAAGC	9360
401	TCTTGGGAG	CAAAAATTCT	AAAATCAAGC	CCCATAATAG	CACAGCCTT	CAATAAAGAA	9420
403	TTAGCAACAT	TCCCCCTACC	ATGCCACAA	AAACACTATT	TAATCCCTT	CAAACCCCC	9480
405	TTATGTTCTT	TTATTGTCAT	TAAATCGGCT	AGTATTGGG	TTGGGTGAGA	AATATCTGTC	9540
407	AATCCATTGT	AAACAGGAAC	ATTAGAATAA	TTCGCCAAAC	ATTCAACAGT	CTGTTGAGAA	9600
409	AAGCCTCTAA	ATCCAATAGC	ATCATACATG	CGTCCAAAAA	CTCTAGCGGT	ATCTATCATA	9660
411	GACTCTTTG	AGCCCATTG	ATTACCCTTA	GATCCCAAAT	AAGTAATATT	TGCCCTTGA	9720
413	TCATAGGCTG	CGATCTCAA	AGCACACCGG	GTCCCTGTTG	AATCTTCTC	AAAAATTATA	9780
415	ACTATATTT	TACCTTAAG	TTTTGCACT	TCAATTCTG	CATATTGTA	CTTTTTAAA	9840
417	TTAATCGATA	AATCAAGTAA	ATATTTAATA	TCTTGCTTG	AAAATCTAA	AAGATTTAAA	9900
419	AAGCTCTAT	TTCGAAATT	ATACATCAAC	CACCAACCTT	TACAATCAAG	TTTTAAAAAA	9960
421	CTCATTAAAC	TCATGCTTAA	ACATGCTTAA	ATATTAATA	TCCTCTCTTA	CTAAAGACAT	10020
423	AGACATGCAT	CTGGCCCAC	CACGACCCCT	TGAAAGCTCG	CTAGACGGAA	TTCTGTGAAC	10080
425	TTTAATACCA	TTTCTTCAA	ACAGCTTATT	AGTTACATGA	TTTCTAGAAT	AAGCAATTAC	10140
427	TTCTCCTGGA	GCTATCGCCA	AAACATTAGC	ACCATCATTC	CATTGTTCTC	TTGCACCATG	10200
429	TATTAAATCT	CCACCCGCAC	ATTTTATTAT	GTCAATTGTT	CTGCCTAAAT	AAAAGCTCAA	10260
431	AACATCTTA	AGCTTGGCTT	TTTCTTTTT	AATATTAATT	TTATTAGAAT	TTGAATTGTA	10320
433	AGTTAAAACA	TAAATTGAGA	AATACATATC	ATCACTTGTA	AAACTTGTAA	AAACGCTATA	10380
435	ATCAATTGG	GTAAAAAACTG	TGTCTAAGTG	CATATAGGCT	CTGTTTTTG	GAATTTAAA	10440
437	AGCCAAAATT	GTGCTAAATG	GAGCCTTATT	TTTAAAAAGA	CTAGCAGCTA	TTTTTCTAC	10500
439	AGACCCCGCT	TCTGTTCTT	CTGAGATTCC	AATAACCAAA	AGATCTTAT	TTAAAACAAA	10560
441	CTCATCCCCA	CCTTCCAAAG	AAAGTTCTTC	CCATCTATTA	AACCAAATTG	GAACATTTTC	10620
443	TTTGTAGCG	GAATGATATT	AAAAATATA	CTCTGCAAAT	ATTGTCTCTC	TACGTCTAAC	10680
445	CTTGGTATAC	ATTTTATTTA	TTGTAATTCC	ATTGCCATA	CTGGCAAAAG	GATCTCTGGT	10740
447	AAATAAAACA	TTGGGCATAG	GATCAATAAC	AAAAAGACTT	GAACCATTAA	CCCAATCATC	10800
449	AAGCGAAAAT	TCACAACTCTT	TAAGCTCTC	TCTTGCAACG	CCGGAAATCA	TTTAGAAAC	10860
451	CATATTATCA	ACGGTTAAAT	TAGAAAAATA	ATCTTTAAA	ATATTAATTA	CACCATCTGT	10920
453	TTTATTCT	GCTTCCAGAA	TAAATTGAGA	TATAAATTAA	TTTTTGAGCG	CTACAGAAGA	10980
455	AGCAAGAACT	TCACTAACAA	GATCCTCAAC	ATACTCAATT	TCAACTGAAT	TATCTTTAA	11040
457	AATATTACCA	AAAACCTCAT	GCTCTTGTCT	TGCAACTTTA	AGATAAGGAA	TATCATCAA	11100
459	AAAAAAATT	TTCATAATCA	AGGGTGTCAA	ATTTTCTAAT	TCTTCTCCTG	GCCTATGAAG	11160
461	CAAAACTTT	TTCAAAACGAC	CTATTTCCGA	AAATATATT	ATTGGATTAA	ATATTCTTC	11220
463	TTCCATCGAT	TTCCCCCTT	ATGAAAATTG	TCATATATTAA	AAATACTATA	GTTCATATTAA	11280
465	AAAAACATCA	ACTATTTTA	ATAATATTAA	AAATATAATA	AAAATATAAA	AAATTGAAAA	11340
467	ATAAAAAGTT	CTAAAAAAACT	TCAAATCAA	AACATAAACAA	AAAATTATG	CTAAAATACT	11400
469	AATCATGAAG	AATATTAATA	GATTAATATT	ATTAATATTAA	ACTACACACA	CTTTATTATT	11460
471	CTCTTGTGCC	TTAATTGAGC	ATAATAAGTC	AAAAAATTAA	AGCACATCAG	AAATCATATT	11520
473	AACACAAAAA	ACACTACTAG	AAAGCTCTT	AATAAAAAT	CCTTCTAATG	TAGAATATCG	11580
475	AATACCAATA	TCCAGTATCC	AAGAAATTAA	AAACAATAAC	AATGATTCTT	TTTAATAAA	11640
477	AAAAACAGCA	GCAAAAATCA	AAATAAGCCC	TCAAAACTT	GAAGAAATAA	AAAACATATCT	11700
479	AAATGCTTAT	AAAAATTATC	TAAATAATGA	AACAGAAATGG	ATAAAGTTA	TAGATCAAAG	11760
481	TAGCGTCAAT	GGAAAATTAA	CAATTTAAAT	TGATACTGCT	TTTGAAAAAA	AAACAAATT	11820
483	TAATCATAAC	AATTAGATA	ATGAAAATT	AACAGAACTA	ATAGAACTAC	AAATGCATCT	11880
485	GGAAAAAGAA	ATTTAAACT	TAATTGAGCA	AACATTCAT	GATAAAAATT	TAGGATATAT	11940
487	ACAATTAAGT	CACATCAACT	CATTCTTCC	TCAAGAAAAT	ATAAACTCAA	TAACAAAAGA	12000
489	AATAATAGAT	GGAAAAGAAT	ATATTGCACC	GCACATAATA	GCAAATCAAT	TATTAATTT	12060

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/830,228

DATE: 02/15/2002
TIME: 11:18:49

Input Set : N:\Crf3\RULE60\09830228.raw
Output Set: N:\CRF3\02152002\I830228.raw

L:44 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:46 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:69 M:220 C: Keyword misspelled or invalid format, [(ix) TELECOMMUNICATION INFORMATION:]
L:931 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=1
L:31345 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=2
L:37913 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=3
L:38695 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=4
L:39885 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=5
L:41537 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=6
L:42171 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=7
L:42877 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=8
L:43861 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=9
L:44115 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=10
L:45335 M:111 C: (47) String data converted to upper case,
L:45617 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=14
L:45753 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=15
L:46065 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=16
L:46375 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=17
L:46665 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=18
L:46939 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=19
L:47407 M:111 C: (47) String data converted to upper case,
L:47427 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=21
L:47633 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=22
L:47819 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=23
L:48023 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=24
L:48195 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=25
L:48379 M:111 C: (47) String data converted to upper case,

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/830,228

DATE: 02/15/2002

TIME: 11:18:49

Input Set : N:\Crf3\RULE60\09830228.raw
Output Set: N:\CRF3\02152002\I830228.raw

M:111 Repeated in SeqNo=26
L:48561 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=27
L:48693 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=28
L:56535 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:155